

AN 1997-053136 JAPIO
TI HYDROGEN STORAGE ALLOY AND HYDROGEN STORAGE ALLOY ELECTRODE
IN TSUJI YOICHIRO; YAMAMOTO TORU; SERI HAJIME; YAMADA TOSHIHIRO; TOYOGUCHI
YOSHINORI
PA MATSUSHITA ELECTRIC IND CO LTD
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SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1997
AB PROBLEM TO BE SOLVED: To provide a hydrogen storage alloy electrode
excellent in cycle characteristics and high-efficiency electric discharge
characteristics by improving a hydrogen storage alloy of Ti-V-Ni type,
having a body-centered cubic structure.
SOLUTION: This alloy is a hydrogen storage alloy which has a composition
represented by the formula, $Ti<SB>x</SB>V<SB>y</SB>M<SB>z</SB>Ni<SB>1-x-y-z</SB>$ (where M means at least one element selected from the group
consisting of Al, Mn, and Zn and $0.2 \leq x \leq 0.4$, $0.3 \leq y \leq 0.7$, $0.1 \leq z \leq 0.3$, and
 $0.6 \leq x+y+z \leq 0.95$ are satisfied) and in which the essential component of
alloy phase has a body-centered cubic structure. Further, this hydrogen
storage alloy contains at least one element selected from the group
consisting of Cr, Mo, W, Co, Fe, Cu, Ag, Zr, Hf, Si, B, P, S, and rare
earth elements by ≤ 5 atom% per element based on the total content.
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